VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

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	JUL	17	2008	
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Contract ID 080425-303 Job No. J3P0664, J3P0727, J3P0733 County Audrain and Pike Original Bid Cost \$4,596,400.00 Route 54 Pace Construction Company By Aaron Loehr Contractor Pace Construction Company Phone 314-524-7223 Designed By **VECP** or VECP/PDU VECP# 1. Description of existing requirements and proposed change(s). Advantages/Disadvantages The existing plans call for a ½" wedge of BP-3 to be applied to the 24' driving surface on J3P0727 and J3P0733. Pace Construction proposes to mill 1" or 1 3/4" depth across the driving surface. This will be a mill and fill operation. Pace Construction submitted a price for both depths at Modot's request in case stripping becomes an issue. The main advantages of milling across the driving surface instead of wedging would be significant cost reduction. This would also lower the amount of Type 5 Aggregate applied to the shoulder. This would be a 25/75 savings to the state. Please see attached spreadsheet. 2. Estimate of reduction in construction costs. \$69,552.99 3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations. Pace Construction does not see any long term effects on maintenance or operations. a cili en la collega de desarra carola communa de madagada Ediffica pe 4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications. 7/18/08 (date) 5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule. Scheduling for completion of the project 7/15/08 (effect) (date) 6. Dates of any previous or concurrent submission of the same proposal. Harra Characteristic italia italia esse aria i calli reali esse el farira de la collega este el cipa es el col (date and/or dates)

Additional Comments:

The savings could possibly be greater to Modot as the BP-3 Wedge is expected to over run significantly because of the severe rutting on the route. The amount of over run can't be quantified but is believed to be over 10%.

** Portion Below This Line To Be Filled Out by MoDOT **

Comments: I doing option be un	have checked with Brandom Simmins in JC and he is a with a mill a mill and fill operation. I believe we should go with the I" mill a. The contractor were doing the I" operation tooley and it seems to viving terrifically. Therefore, I recommend approval of the I" mill all prices. T/23/88 Submitted By Resident Engineer Date
Comments:	gree with PE's comments. This should be a soud way
	eve our expectations of Smooth road with no joint lungs
Al well a	s cost savings due to possibility at large overous on high priced BP-3 mix.
	had al RP-2
	might frice of & mit
Approval	
Recommend	ded Man Fodenbaugh 7/30/08
Recommend	District Engineer Date
Recommen	ucu
<u>L</u>	
Comments:	
	Concer with District - need to natoly contents Ant no joint bamps will be allowed.
(ancer will Dostales - well of
	Short an ingline bours will be allowed.
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Approval	/mi /Cautra 8/15/08
Rejection	State Construction and Materials Engineer Date

Distribution:

Resident Engineer, Project Manager, District Operations Engineer, State Construction and Materials Engineer *Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102



Cost Savings to Profile Mill 1" J3P0727 and J3P0733

J3P0727 Description BP-3(64-22)	Qty Unit 3004.9 Ton	Unit Cost \$64.45	Oil Content 6.30%	Index Adjustment \$8.95	Indexed Price \$73.40	Total Price \$220,548.88	
Profile Mill 1"	110022 SY	\$1.78			\$1.78	\$195,839.16	
					Savings	\$24 709 72	

		,			
J3P0733 Description BP-3(64-22)	Qty Unit 2096.3 Ton	Unit Cost \$61.50	Index Adjustment \$8.95	Indexed Price \$70.45	Total Price \$147,676.82
Profile Mill 1"	76173 SY	\$1.35		\$1.35	\$102,833.55
				Savings	\$44.843.27

Ì	Modot Saving	632.45

\$11,210.82

Total Savings	\$69,552.99
Pace 25%	\$17,388.25
Modot Savings	\$52,164.74

Pace 25% Modot Savings

^{**}Total Savings on Job J3P0733 would be based on index in August as originally planned on the schedule



Cost Savings to Profile Mill 1 3/4" J3P0727 and J3P0733

J3P0727 Description BP-3(64-22)	Qty Unit 3004.9 Ton	Unit Cost Oil Content \$64.45 6.30%	Index Indexed Adjustment Price \$8.95 \$73.40	Total Price \$220,548.88
Profile Mill 1 3/4"	110022 SY	\$1.98	\$1.98	\$217,843.56
			Savings Pace 25% Modot Savings	\$2,705.32 \$676.33 \$2,028.99
J3P0733 Description BP-3(64-22)	Qty Unit 2096.3 Ton	Unit Cost Oil Content \$61.50 6.30%	Index Indexed Adjustment Price \$8.95 \$70.45	Total Price \$147,676.82
Profile Mill 1 3/4"	76173 SY	\$1.55	\$1.55	\$118,068.15
	,		Savings Pace 25% Modot Savings	\$29,608.67 \$7,402.17 \$22,206.50
		1	Total Savings Pace 25% Modot Savings	\$32,313.99 \$8,078.50 \$24,235.49

^{**}Total Savings on Job J3P0733 would be based on index in August as originally planned on the schedule.

MEMORANDUM



Missouri Department of Transportation Construction and Materials 1617 Missouri Boulevard

TO:

Travis Koestner - CM

Assistant State Construction and Materials Engineer

FROM:

Denis Glascock

DATE:

July 31, 2008

SUBJECT:

Value Engineering Proposal

Attached is a value-engineering proposal from D3. I have reviewed it and I think it should be approved. If you do not concur, please advise. Otherwise route it accordingly for signature and processing.

Thanks.

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK (Check one that applies) Bridge/Structure/Footings Drainage Structures (RCP, RCB, CMP's, ect.) TCP/MOT Paving (PCCP, ect.) Grading/MSE Walls Signal/Lighting/ITS Misc. SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)
This involves 1" milling and inlay hot mix asphalt, instead of placement of ½" wedge that was designated by the contract. The process also reduces the amount of shoulder work required.

SCANNING OF DOCUMENT
If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.